

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-170583

(43)Date of publication of application : 26. 06. 2001

(51)Int. Cl.

B08B 3/12

B65G 49/02

B65G 49/06

H01L 21/304

H01L 21/68

(21)Application number : 11-355903

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(22)Date of filing : 15. 12. 1999

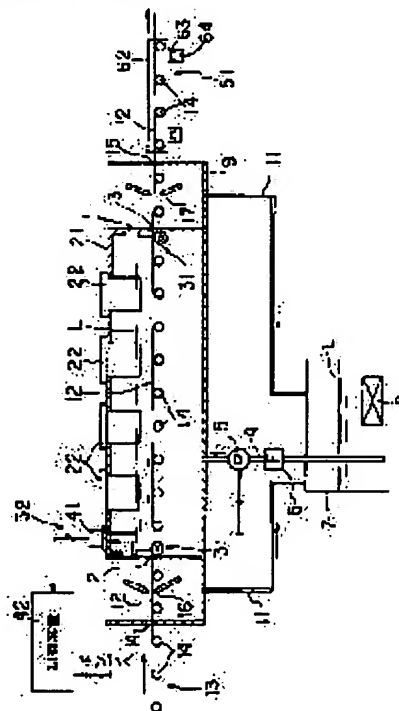
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## (54) ULTRASONIC WASHING APPARATUS AND ULTRASONIC WASHING METHOD

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide an ultrasonic washing apparatus capable of efficiently and reliably carrying out ultrasonic washing of the upper face of a substrate being transported.

SOLUTION: The ultrasonic washing apparatus for washing a substrate with a washing liquid to which ultrasonic vibrations are transmitted comprises a washing tank 1 having a taking-in inlet 2 in one end and a taking-out outlet 3 in the other end, transportation rollers 14 for taking a substrate in through the inlet 2 and taking the substrate out through the outlet 3, a washing liquid circulation pump 5 for supplying the washing liquid to the washing tank to keep the liquid surface higher than the upper face of the substrate transported by the transporting means and recovering the washing liquid flowing out the inlet and the outlet, and ultrasonic oscillators 22 installed in the upper face side of the substrate transported by the transportation rollers 14 so as to be immersed partly in the washing liquid in the upper face side of the substrate and oscillate ultrasonic vibrations.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of